BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to roads and drains at Kogilu And Kogilu Layout in ward No.06 Kogilu.

MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.	Remarks
Item No. 01		Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. and as per the direction of Engineer in charge of the work.											
		Cum											
		Vide Total executed Quantity from premeasuremet Page no. 1 to 2								98.38			
		Total Executed Quantity								**98.38**			
		Tender Quantity								**99.00**			
		Now To Be Paid Quantity								**98.38**	**214.81**	**21133.01**	
Item no.02		Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth.											
		Cum											
		Vide Total executed Quantity from premeasuremet Page no. 3 to 4								944.56			
		Total Executed Quantity								**944.56**			
		Tender Quantity								**939.04**			
		Now To Be Paid Quantity								**944.56**			
		Quantity Limited to								**939.04**	**75.07**	**70493.73**	
Item no.03		Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete											
		Cum											
		Vide Total executed Quantity from premeasuremet Page no. 5								262.75			
		Total Executed Quantity								**262.75**			
		Tender Quantity								**260.82**			
		Now To Be Paid Quantity								**262.75**			
		Quantity Limited to								**260.82**	**2710.53**	**706960.43**	
Item no.04		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification											
		Cum											
		Vide Total executed Quantity from premeasuremet Page no. 6-7								677.97			
		Total Executed Quantity								**677.97**			
		Tender Quantity								**678.22**			
		Now To Be Paid Quantity								**677.97**	**2764.81**	**1874458.24**	
Item no.05		Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification											
		Sqm											
		Vide Total executed Quantity from premeasuremet Page no. 8 to 9								2947.60			
		Total Executed Quantity								**2947.60**			
		Tender Quantity								**2948.80**			
		Now To Be Paid Quantity								**2947.60**	**48.51**	**142988.08**	
Item no.06		Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification											
		Cum											
		Vide Total executed Quantity from premeasuremet Page no. 10 to 11								147.41			

Contractor

ಸಹಾಯಕ ಅಭಿಯಂತರರು
Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Assistant Executive Engineer
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೃ.ಬ.ಆ.ಪ., ಬೆಂಗಳೂರು-26

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MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.	Remarks
									Total Executed Quantity	**147.41**			
									Tender Quantity	**147.44**			
									Now To Be Paid Quantity	**147.41**	**10554.54**	**1555844.74**	
Item no.07		Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification											
			Sqm										
		Vide Total executed Quantity from premeasuremet Page no. 12 to 13								2947.60			
									Total Executed Quantity	**2947.60**			
									Tender Quantity	**2948.80**			
									Now To Be Paid Quantity	**2947.60**	**16.17**	**47662.69**	
Item no.08		Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification											
Measurements Taken On													
		Balaji Layout											
		1stA Cross Road											
0	15		Cum	1	15.00	4.55	4.85	4.70	0.04	2.82			
15	30		Cum	1	15.00	4.85	4.10	4.48	0.04	2.69			
30	45		Cum	1	15.00	4.10	4.40	4.25	0.04	2.55			
45	60		Cum	1	15.00	4.40	4.40	4.40	0.04	2.64			
60	67.8		Cum	1	7.80	4.40	4.20	4.30	0.04	1.34			
		Prakruthi nagar											
		3rd Cross Road											
0	15		Cum	1	15.00	4.20	5.90	5.05	0.04	3.03			
15	30		Cum	1	15.00	5.90	6.05	5.98	0.04	3.59			
30	45		Cum	1	15.00	6.05	6.10	6.08	0.04	3.65			
45	60		Cum	1	15.00	6.10	6.10	6.10	0.04	3.66			
60	75		Cum	1	15.00	6.10	6.15	6.13	0.04	3.68			
75	92.5		Cum	1	17.50	6.15	6.15	6.15	0.04	4.31			
		2nd Cross Road											
0	15		Cum	1	15.00	5.95	5.00	5.48	0.04	3.29			
15	30		Cum	1	15.00	5.00	5.40	5.20	0.04	3.12			
30	45		Cum	1	15.00	5.40	4.75	5.08	0.04	3.05			
45	65.4		Cum	1	20.40	4.75	5.60	5.18	0.04	4.23			
		Cross Road											
0	15		Cum	1	15.00	5.00	4.90	4.95	0.04	2.97			
15	30		Cum	1	15.00	4.90	5.00	4.95	0.04	2.97			
30	45		Cum	1	15.00	5.00	4.85	4.93	0.04	2.96			
45	60		Cum	1	15.00	4.85	4.80	4.83	0.04	2.90			
60	70.7		Cum	1	10.70	4.80	5.00	4.90	0.04	2.10			
		Kogilu Layout											
		Kogilu Bande Road											
0	15		Cum	1	15.00	4.15	4.80	4.48	0.04	2.69			
15	30		Cum	1	15.00	4.80	4.60	4.70	0.04	2.82			
30	45		Cum	1	15.00	4.60	5.10	4.85	0.04	2.91			
45	60		Cum	1	15.00	5.10	5.85	5.48	0.04	3.29			
60	75		Cum	1	15.00	5.85	5.95	5.90	0.04	3.54			
75	90		Cum	1	15.00	5.95	5.90	5.93	0.04	3.56			
90	105		Cum	1	15.00	5.90	5.70	5.80	0.04	3.48			
105	120		Cum	1	15.00	5.70	5.90	5.80	0.04	3.48			
120	135		Cum	1	15.00	5.90	6.15	6.03	0.04	3.62			
135	150		Cum	1	15.00	6.15	6.20	6.18	0.04	3.71			
150	165		Cum	1	15.00	6.20	5.90	6.05	0.04	3.63			
165	180		Cum	1	15.00	5.90	6.10	6.00	0.04	3.60			
180	195		Cum	1	15.00	6.10	6.35	6.23	0.04	3.74			
195	210		Cum	1	15.00	6.35	5.95	6.15	0.04	3.69			

109.31

Contractor

Assistant Engineer

Assistant Executive Engineer

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MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.	Remarks
210	225		Cum	1	15.00	5.95	6.05	6.00	0.04	3.60			
225	240		Cum	1	15.00	6.05	6.20	6.13	0.04	3.68			
240	245.5		Cum	1	5.50	6.20	6.10	6.15	0.04	1.35			
									Total Executed Quantity	117.94			
									Tender Quantity	117.95			
									Now To Be Paid Quantity	117.94	12254.54	1445300.45	
Item no.09		Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification											
Measurements Taken On													
		Balaji Layout											
		1stA Cross Road											
0	15		Sqm	2	15.00	0.10	0.10	0.10		3.00			
15	30		Sqm	2	15.00	0.10	0.10	0.10		3.00			
30	45		Sqm	2	15.00	0.10	0.10	0.10		3.00			
45	60		Sqm	2	15.00	0.10	0.10	0.10		3.00			
60	67.8		Sqm	2	7.80	0.10	0.10	0.10		1.56			
		Prakruthi nagar											
		3rd Cross Road											
0	15		Sqm	2	15.00	0.10	0.10	0.10		3.00			
15	30		Sqm	2	15.00	0.10	0.10	0.10		3.00			
30	45		Sqm	2	15.00	0.10	0.10	0.10		3.00			
45	60		Sqm	2	15.00	0.10	0.10	0.10		3.00			
60	75		Sqm	2	15.00	0.10	0.10	0.10		3.00			
75	92.5		Sqm	2	17.50	0.10	0.10	0.10		3.50			
		2nd Cross Road											
0	15		Sqm	0.5	15.00	0.10	0.10	0.10		0.75			
15	30		Sqm	0.5	15.00	0.10	0.10	0.10		0.75			
30	45		Sqm	0.5	15.00	0.10	0.10	0.10		0.75			
45	65.4		Sqm	0.5	20.40	0.10	0.10	0.10		1.02			
		Cross Road											
0	15		Sqm	2	15.00	0.10	0.10	0.10		3.00			
15	30		Sqm	2	15.00	0.10	0.10	0.10		3.00			
30	45		Sqm	2	15.00	0.10	0.10	0.10		3.00			
45	60		Sqm	2	15.00	0.10	0.10	0.10		3.00			
60	70.7		Sqm	2	10.70	0.10	0.10	0.10		2.14			
		Kogilu Layout											
		Kogilu Bande Road											
0	15		Sqm	2	15.00	0.10	0.10	0.10		3.00			
15	30		Sqm	2	15.00	0.10	0.10	0.10		3.00			
30	45		Sqm	2	15.00	0.10	0.10	0.10		3.00			
45	60		Sqm	2	15.00	0.10	0.10	0.10		3.00			
60	75		Sqm	2	15.00	0.10	0.10	0.10		3.00			
75	90		Sqm	2	15.00	0.10	0.10	0.10		3.00			
90	105		Sqm	2	15.00	0.10	0.10	0.10		3.00			
105	120		Sqm	2	15.00	0.10	0.10	0.10		3.00			
120	135		Sqm	2	15.00	0.10	0.10	0.10		3.00			
135	150		Sqm	2	15.00	0.10	0.10	0.10		3.00			
150	165		Sqm	2	15.00	0.10	0.10	0.10		3.00			
165	180		Sqm	2	15.00	0.10	0.10	0.10		3.00			
180	195		Sqm	2	15.00	0.10	0.10	0.10		3.00			
195	210		Sqm	2	15.00	0.10	0.10	0.10		3.00			
210	225		Sqm	2	15.00	0.10	0.10	0.10		3.00			
225	240		Sqm	2	15.00	0.10	0.10	0.10		3.00			
240	245.5		Sqm	2	5.50	0.10	0.10	0.10		1.10			
									Total Executed Quantity	98.57			
									Tender Quantity	99.20			

Contractor

Assistant Executive Engineer

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MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.	Remarks
									Now To Be Paid Quantity	98.57	552.04	54414.58	
Item no.10		Loading and Unloading of Stone Boulder /Stone aggregates / Sand/Kankar/Moorum. (Tipper 5.5 m3) and as per the direction of Engineer in charge of the work.											
			Cum										
		Vide Total executed Quantity from premeasuremet Page no.								1042.94			
									Total Executed Quantity	1042.94			
									Tender Quantity	1038.04			
									Now To Be Paid Quantity	1042.94			
									Quantity Limited to	1038.04	136.28	141464.09	
Item no.11		Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km and as per the direction of Engineer in charge of the work.											
			t.km										
		Vide Total executed Quantity from premeasuremet Page no. 15								1477.68			
									Total Executed Quantity	1477.68			
									Tender Quantity	1479.48			
									Now To Be Paid Quantity	1477.68	110.87	163830.38	
											Sub Total	6224550.42	
											Add 18% Gst	1120419.08	
											Total Amount	7344969.50	

Round off: 7344000.00

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